

fixed condenser in the earth lead, that is, between the earth itself and the earth terminal on the set. The capacity isolation will in no way effect the working of the set providing the condenser incorporated is of good quality, and has a low equivalent high frequency resistance, since it is in the aerial circuit. Even if the negative main is earthed at the power station, a test generally shows the main to be a few volts above or below earth potential, so the inclusion of this condenser in every case will prevent current leakage.

There is a very simple manner of overcoming this problem—by the use of a rotary converter. This piece of apparatus, which may be obtained

## Across the Tasman

### Impeding Broadcasts

AS the North Shore Bridge at Sydney gradually creeps across the harbour, world-wide public interest in this marvel of modern engineering becomes more and more keen. To satisfy the thirst for information in regard to the progress made, the A.B.C. is having prepared a series of talks describing some of the most interesting phases of this great work. The first of these will

consented to broadcast. New Zealanders with musical inclinations should not miss hearing these talks, which promise to be very interesting.

ON October 23, Mr. Michael Sawtell will deliver from 2FC an interesting talk on "The Philosophy of a Vagabond." At an early age he ran away to the bush and was for many years droving cattle, cattle-raising, and prospecting in Queensland. For a few years he lived amongst the wild natives, but he finally returned to city life, and is now a very popular lecturer.

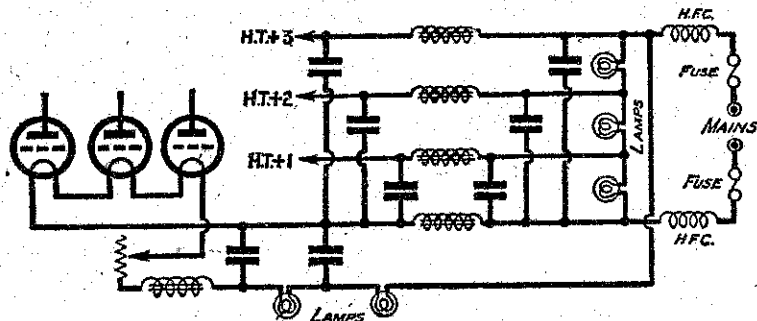
### Ship to Shore Transmission

RECENTLY the wireless service between Australia and ships at sea was improved until now telephone subscribers who wish to communicate with vessels within range, are able to lodge their messages by telephone with the transmitting station. Direct communication is not, of course, provided for, but in favourable circumstances it is possible to send a message and receive a reply from a vessel a thousand miles at sea in the space of ten minutes or less. The number of people using the facilities thus provided has been much smaller than anticipated, and the reason is thought to be that radio is being developed in so many different ways nowadays that the public do not fully realise that they can now virtually telephone their friends on board ship.

## The Fultograph

### Used for Novel Purpose

THE Fultograph picture transmission system is to be put to a novel use at the Slough Radio Research Station for the purpose of recording atmospherics. By arrangement with the B.B.C. special Fultograph transmissions will be made from Daventry after the normal experimental periods, and these will be picked up at recording stations in various parts of Europe. The transmissions will not take the form of pictures; instead there will be sent out a series of straight lines, both horizontal and vertical, forming a grid or network. When the atmospheric occurs deformations of the straight lines will take place to an extent depending upon the intensity of the interference. It is hoped by this means that it may be possible to make records giving the most valuable data for research into the intensity, duration and origin of individual atmospherics. Since the drums of all receiving apparatus, wherever situated, are synchronised, it will be possible by comparing the results obtained in different places to determine the range at which an individual atmospheric can cause interference and the intensity of this interference in different localities.



A complete circuit, showing how both A and B battery requirements can be met from D.C. mains.

from an Auckland firm, converts direct current to alternating. With this transformation, an AC receiver may be used. The cost is about £20.

Summing up the position, it appears that DC eliminators are fully successful only for the "B" and "C" supply. A filter is necessary, and this with a few additions in the way of chokes and condensers, may be identical with that following a transformer in an AC eliminator.

"A" battery elimination is not practicable.

The recommendation is to use a battery set, a DC eliminator, a wet "A" battery, which must be charged in an AC area, or by means of a rotary converter and a charger.

IN addition to the British stations, both Berlin and Vienna are now sending regular picture programmes by the Fultograph method, and picture transmissions from Rome, Milan, Budapest, Brussels, Prague, and Hilversum are being arranged.

take place from the bridge itself on the afternoon of October 20, and will describe the various phases of the completed portion. The second talk will discuss the preparations made for the completion of this immense structure. These broadcasts should prove of some interest to New Zealand listeners, especially those who have visited Sydney and know the immensity of this undertaking.

ON Saturday, July 29, Station 2BL, transmitted on a dual wavelength the description of the Rugby football match between Australia and New Zealand. Reports have been received from Canada, the United States, Wales, England, Java, and the South Sea Islands, all stating that the shortwave reception from 2ME was very clear and distinct. A letter has now arrived from Worcester, South Africa, and the correspondent states that he picked up 2ME using a three-valve set. He states that the description of the match was most interesting and could be followed quite well.

WITH the coming of the cricket season, New Zealand enthusiasts will be interested to know that the A.B.C. has engaged W. A. Oldfield, the famous international cricketer, to give a series of talks on cricket. This brilliant wicket-keeper will appear from 2FC every Friday evening, commencing on October 18. His talk will also include some of the incidents that occurred during the last tour of the Australian Eleven to England and South Africa.

ON October 16, Major-General Antill, C.B., C.M.G., will broadcast from 2FC an address on "Impressions and Recollections of India." General Antill has the distinction of being the first Australian officer ever sent abroad for professional army training. He is a vivid raconteur, and his address should be listened to with the greatest interest.

EVERY Tuesday until the end of the year, a musical lecturette will be given from 2FC by one of the ten well-known Professors of Music who have

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